

Product Name: WIN 64338 hydrochloride

Catalog No.: 1057

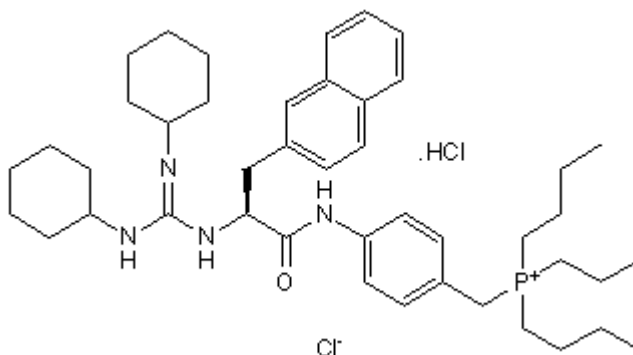
Batch No.: 1

CAS Number: 163727-74-0

IUPAC Name: (S)-4-[2-[Bis(cyclohexylamino)methyleneamino]-3-(2-naphthalenyl)-1-oxopropylamino]benzyl tributyl phosphonium chloride hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₅H₆₈ClN₄OP.HCl.H₂O
Batch Molecular Weight: 801.9652
Physical Appearance: White solid
Solubility: DMSO to 75 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.1 (Dichloromethane:Methanol [10:1])
Melting Point: Between 150 - 170°C
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.4	8.92	6.99
Found	67.67	8.86	7.13

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

The first potent, non-peptide, competitive bradykinin B₂ receptor antagonist. In organ bath studies, WIN 64338 inhibits [³H]-bradykinin binding on guinea pig trachea with nanomolar affinity but is not active in the rabbit aorta (the classical bradykinin B₁ preparation).

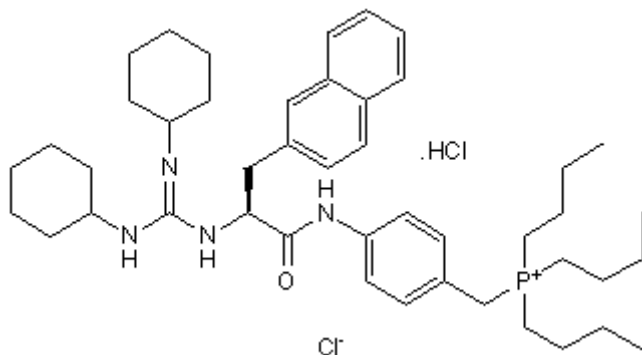
Physical and Chemical Properties:

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Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 75 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Marceau *et al* (1994) Effects of peptide and nonpeptide antagonists of bradykinin B₂ receptors on the vasoconstrictor action of bradykinin. *J.Pharmacol.Exp.Ther.* **269** 1136. PMID: 8014858.

Scherrer *et al* (1995) Effects of WIN 64338, a nonpeptide bradykinin B₂ receptor antagonist, on guinea-pig trachea. *Br.J.Pharmacol.* **115** 1127. PMID: 7582533.

Hu *et al* (2004) Action of bradykinin in the submucosal plexus of guinea pig small intestine. *J.Pharmacol.Exp.Ther.* **309** 320. PMID: 14718600.

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